

Title (en)

PASSIVE COOLING ARTICLES HAVING A FLUOROPOLYMER SURFACE LAYER

Title (de)

PASSIV GEKÜHLTE ARTIKEL MIT OBERFLÄCHENSCHICHT AUS FLUOROPOLYMER

Title (fr)

ARTICLES DE REFROIDISSEMENT PASSIF AVEC UNE COUCHE DE SURFACE COMPORTANT UN POLYMÈRE FLUORÉ

Publication

**EP 3732514 B1 20230920 (EN)**

Application

**EP 18845317 A 20181221**

Priority

- US 201762611639 P 20171229
- IB 2018060529 W 20181221

Abstract (en)

[origin: WO2019130199A1] A passive cooling article is disposed on a substrate to cool the substrate. The article includes an outer layer having a high absorbance in the atmospheric window region of the electromagnetic spectrum and having a high transmittance in the solar region of the spectrum. The article also includes a reflector having a high reflectivity in the solar region of the spectrum. At least one of the outer layer and the reflector includes a fluoropolymer. Micro-sized particles or surface structures may be disposed in or on the outer layer or the reflector to improve absorbance. A metallic layer may be disposed between the fluoropolymer and the substrate to be cooled.

IPC 8 full level

**G02B 5/08** (2006.01); **G02B 5/20** (2006.01); **G02B 5/22** (2006.01); **G02B 5/26** (2006.01); **F24S 70/225** (2018.01)

CPC (source: EP US)

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